

Amendments to the Specification:

Please replace paragraph [0010] with the following amended paragraph.

[0010] In one embodiment, an initial count is either loaded into each processing element or calculated locally based on the processing element's location. The initial count may be given by one of the following expressions:

$(x+y+1) \text{MOD} (\text{array size})_i$

$(C+R+1) \text{MOD} (\text{array size})_i$

$(C+y+1) \text{MOD} (\text{array size})_i$ or

$(x+R+1) \text{MOD} (\text{array size})$.